

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
12 April 2001 (12.04.2001)

PCT

(10) International Publication Number  
WO 01/25970 A1

(31) International Patent Classification: G06F 17/30. (74) Agent: RICHARDS, Marc V., Brink Holder Gibson & Lione, P.O. Box 10087, Chicago, IL 60610 (US).

(41) International Application Number: PCT/US00/27856 (41) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GR, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(22) International Filing Date: 6 October 2000 (06.10.2000)

(23) Filing Language: English

(26) Publication Language: English

(30) Priority Date: 6 October 1999 (06.10.1999) US

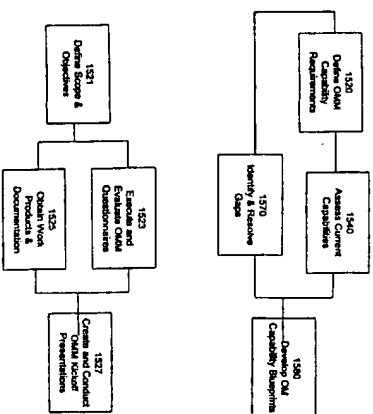
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Published:

With international search report

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(54) Title: METHOD AND ESTIMATOR FOR PROVIDING OPERATIONS MATURITY MODEL ASSESSMENT



WO 01/25970 A1

(57) Abstract: A method for providing an OMM assessment function (1520) of an information technology organization includes delivering the tasks involved in building the OMM assessment (1540) function. The tasks include the planning (1521), analyzing (1523), designing (1580), building, testing, and deploying of the business recovery planning system. Each task includes process, organization (1527), and technology infrastructure elements.

WO 01/25970

PCT/US00/27856

-1-

## METHOD AND ESTIMATOR FOR PROVIDING OPERATIONS MATURITY MODEL ASSESSMENT

### RELATED APPLICATIONS

This application claims the benefit of U.S. Provisional Application 60/158,259, filed October 6, 1999. This application is related to Application Serial No. \_\_\_\_\_, entitled "Organization Of Information Technology Functions", by Dove et al. (Attorney docket No. 10022/45), filed herewith. These applications are incorporated herein by reference in their entirety.

### BACKGROUND OF THE INVENTION

The biggest challenges in Information Technology ("IT") development today are actually not in the technologies, but in the management of those technologies in a complex business environment. From idea conception to capability delivery and to operation, all IT activities, including strategy development, planning, administration, coordination of project requests, change administration, and managing demand for discretionary and non-discretionary activities and operations, must be collectively managed. A shared understanding and representation of IT management is needed because today's technological and business environment demands it. The new technological management orientation should include ways for planning, assessing, and deploying technology within and across enterprises. Businesses need to balance technological capability with enterprise capability in order to become, or stay, a modern organization that has a chance of survival.

There is a need, therefore, to construct a complete yet simple IT framework that would quickly convey the entire scope of IT capability in a functional decomposition. Such IT framework has to be a single framework for describing such IT management. The IT framework should be a framework of all functions; a representation of a complete checklist of all relevant activities performed in an IT enterprise. A single IT Framework should represent all functions operative in an IT enterprise.

-2-

Within that IT Framework, there is also a need for an Operations

5 Maturity Model (OMM) assessment to appraise an organization's IT operations environment process capability. By marketing current IT service offerings, increasing customer satisfaction, and building stronger customer relationships, the IT organization can better service their business customer. An operations maturity model assessment capability becomes critical to the IT organization as competition to provide IT services is beginning to increase from outsourcing. OMM assessment is a key function of an operations maturity model. Therefore, to meet this competition, there are needs for improved methods for providing operations maturity model assessment and an estimator for doing so.

#### BRIEF SUMMARY OF THE INVENTION

15 The present invention is defined by the following claims, and nothing in this section should be taken as a limitation on those claims. By way of introduction, one embodiment of the invention is a method for providing operations maturity model (OMM) assessment that includes planning, performing, and reporting an OMM assessment function for an IT organization.

20 In one aspect of the preferred embodiment, the providing includes defining capability requirements, assessing current capabilities, identifying and resolving gaps, and developing OM capability blueprints for the OMM assessment function.

25 In another aspect of the preferred embodiment, the defining step may include defining scope and objectives, executing and evaluating OMM questionnaires, obtaining work, products and documentation, and creating and conducting OMM kickoff presentations.

30 In another aspect of the preferred embodiment, the assessing step may include scheduling and conducting function interviews, analyzing work products and documentation, following up to solidify data, categorizing data by function, rating base practices, rating generic practices, consolidating data, and preparing function profiles.

-3-

In another aspect of the preferred embodiment the identifying and resolving step may include determining continuous improvement initiatives, identifying alternatives, estimating costs of improvements, assessing timing implications, and selecting to continuous improvement initiatives start.

5 In another aspect of the preferred embodiment the developing step may include prioritizing continuous improvement initiatives; developing capability delivery approach; preparing and presenting final results documentation and presentation; and modifying delivery plans as needed.

10 Another aspect of the present invention is a method for providing an estimate for building an OMM assessment function in an information technology organization. This aspect of the present invention allows an IT consultant to give on-site estimations to a client within minutes. The estimator produces a detailed break down of cost and time to complete a project by displaying the costs and time corresponding to each stage of a project along with each task. Another aspect of the present invention is a computer system for allocating time and computing cost for building a OMM assessment function in an information technology system.

15 These and other features and advantages of the invention will become apparent upon review of the following detailed description of the presently preferred embodiments of the invention, taken in conjunction with the appended drawings.

#### BRIEF DESCRIPTION OF SEVERAL VIEWS OF THE DRAWINGS

20 The present invention is illustrated by way of example and not limitation in the accompanying figures. In the figures, like reference numbers indicate identical or functionally similar elements.

25 Figure 1 shows a representation of the steps in a method for providing an operations maturity model (OMM) assessment system according to the presently preferred embodiment of the invention.

30 Figure 2 shows a representation of the tasks for defining OMM capability requirements for the method represented in Figure 1.

-4-

Figure 3 shows a representation of the tasks for assessing current capabilities for the method represented in Figure 1.

Figure 4 shows a representation of the tasks for identifying and resolving gaps for the method represented in Figure 1.

Figure 5 shows a representation of the tasks for developing OM capability blueprints for the method represented in Figure 1.

Figure 6 shows a flow chart for obtaining an estimate of cost and time allocation for a project.

Figures 7a through 7b show one embodiment of an estimating worksheet for an OM business recovery planning estimating guide.

#### DETAILED DESCRIPTION OF THE INVENTION

For the purposes of this invention, an information technology ("IT") enterprise may be considered to be a business organization, charitable organization, government organization, etc. that uses an information technology system with or to support its activities. An IT organization is the group and associated systems and processes within the enterprise that are responsible for the management and delivery of information technology services to users in the enterprise. In a modern IT enterprise, multiple functions may be organized and categorized to provide comprehensive service to the user. Thereby, an information technology framework for understanding the interrelationships of the various functionalities, and for managing the complex IT organization is provided.

The various operations management functionalities within the IT framework include a customer service management function; a service integration function; a service delivery function; a capability development function; a change administration function; a strategy, architecture, and planning function; a management and administration function; a human performance management function; and a governance and strategic relationships function. The complexity of the business environment demands that a company have a formal way of assessing its IT capabilities, as well as a specific and measurable path for improving those capabilities.

-5-

Management and administration provides the framework for effectively managing information technology enterprises using sound business principles and practices. Management and administration manages functions that are not always unique to the information technology portion of the enterprise; therefore, these functions are often performed outside of the information technology group. In some enterprises, some of these non-technology management and administrative functions are performed by separate departments within the larger enterprise (i.e., a separate finance organization), while in other enterprises (especially in outsourcing arrangements and very large information technology enterprises), the information technology enterprise itself may be partially or fully responsible for these functions. The functions within management and administration include financial administration, quality administration, asset management, vendor management, facilities, regulatory compliance, and communications.

Quality management is a function within management and administration. Quality management monitors, across the enterprise, how well the IT environment is being managed and works towards continual improvement of IT capabilities and services. Quality management ensures that quality is put into every aspect of IT throughout the enterprise. Functions within quality management include tasks for the quality plan, quality metrics, external benchmarking, quality assurance review, and continuous improvement planning.

In a company-wide initiative to address these capabilities, Andersen Consulting developed and used the Management of the Distributed Environment (MODE) framework and its gap analysis to capture the best practices of IT management and to determine areas of improvement. MODE is a framework for identifying the tools and procedures required to manage a distributed environment. More recently, Andersen Consulting has taken a broader view of the IT industry by incorporating MODE into the IT Framework. While the IT Framework and the gap analysis is intended to capture weaknesses in processes that are observable, it does not provide data with sufficient granularity upon which a comprehensive improvement plan can be

-6-

built. The Operation Maturity Model (OMM) is intended to add further objectivity and consistency to the gap analysis by increasing the requirements of data capturing and data analysis. This added formalism will make the gap analysis conceptually similar to capability assessment approaches, such as the Software Engineering Institute's (SEI) software CMM, or the International Organization for Standards and the International Electromechanical Commission's SPICE models. The present invention includes a method for providing an OMM assessment function and an estimator useful for determining the times and cost to provide such a function.

Before describing the method for providing OMM assessment, some related terms are first described as follows:

#### **Operation Maturity Model (OMM):**

The OMM provides the basis for IT organizations to gauge performance, and will assist in planning and tracking improvements to the IT operations environment. Operations Maturity is the extent that the organization's processes are explicitly defined, managed, measured, controlled, and effective, and the consistency with which it is applied throughout the operations environment. The operations environment dimension is characterized by a set of processes. Each process has a measurable purpose statement, which describes what has to be achieved in order to attain the defined purpose of the process. The operations environment is partitioned into three elements: Process Categories, Functions and Base Practices.

The framework provides a basis for defining an objective improvement strategy in line with an IT organization's needs, priorities, and resource availability. The OMM further provides a method for determining the overall operations maturity of an IT organization based on the quality and institutionalization of its processes. The OMM can thus be used by IT organizations in a variety of contexts. An IT organization can use the model to assess and improve its own processes. An IT organization can also use the model to assess the capability of suppliers in meeting their commitments, and

-7-

hence better manage the risk associated with outsourcing and sub-contract management. In addition, the model can be used to focus on an entire IT organization, on a single functional area such as service management, or on a more focused area such as a problem management.

#### **Assessment Process:**

The assessment process is used to appraise an organization's IT operations environment process capability. The objective of the assessment is to identify the differences and the gaps between the actual implementations of the processes in the assessed IT operations organization with respect to the OMM. Defining a reference model ensures that results of assessments can be reported in a common context and provides the basis on which comparisons can be based.

An IT organization can perform an assessment for a variety of reasons. An assessment can be performed in order to assess the processes in the operations environment with the purpose of improving work and service processes. An IT organization can also perform an assessment to determine and better manage the risks associated with outsourcing. In addition, an assessment can be performed to determine if the IT organization is capable of supporting a new application or technology.

Three phases are defined in the assessment model: planning the assessment, performing the assessment, and reporting the assessment results. All phases of the assessment are performed using a team-based approach. Team members include the OMM sponsor, the assessment team lead, assessment team members, and IT operations personnel.

#### **Rating Framework:**

A rating is a characterization of an IT organization's operations processes relative to a component of the OMM.

-8-

**Base Practices:**

A base practice is an essential activity that an organization performs to achieve the purpose of a Function. A base practice is described in specific terms; it is what an organization does.

**Generic Practices:**

A generic practice is an activity that contributes to the capability of managing and improving the effectiveness of the operations environment Functions in achieving their purposes through the base practices. A Generic Practice is applicable to all Functions and contributes to overall process management, measurement and institutionalization capability of the Functions.

**Work Products:**

Work products describes evidence of base practice implementation. For example, a completed change control request and / or a resolved trouble ticket.

**Process Attributes:**

Process attributes are features of a process that can be evaluated on a scale of achievement (performed, partially performed, not performed, etc.) which provide a measure of the capability of the process.

**Category:**

A category has a defined purpose and measurable goals and consists of logically related set of Sets that collectively address the purpose and goals, in the same general area of activity.

**Network Centric Environment:**

For the purpose of the present invention, the term "network centric" (or, netcentric) should be construed to cover various means of reaching out to customers and partners with computing systems and knowledge over a communications backbone, such as an intranet, extranet, or internet connection. It is valuable to have an understanding of a netcentric

-9-

environment since carrying out the method of providing OMM assessment within this environment may take special considerations.

To define netcentric properly, it is helpful to have a general understanding of a framework that describes the types of applications required in a netcentric computing system. Application logic is preferably packaged into components and distributed from a server to a client over a network connection between the client and server. The client has standardized interfaces so that an application can execute with a client that can run on multiple operating systems and hardware platforms. Further, the application components of the preferred netcentric computing system enable the netcentric computing systems to be adaptable to a variety of distribution styles, from a "thin client" to a "fat client."

Netcentric frameworks preferably support a style of computing where processes on different machines communicate using messages. In this style of computing, "client" processes delegate business functions or other tasks (such as data manipulation logic) to one or more server processes. Server processes respond to messages from clients. Business logic can reside on both the client and server. Clients are typically personal computers (PC's) or workstations with a graphical user interface running a web browser. Servers are preferentially implemented on UNIX, NT, or mainframe machines. In netcentric computing systems, there is a preferred tendency to move more business logic to the servers, although "fatter" clients result from new technologies such as Java and ActiveX. In a netcentric environment, technology, people, and processes may be distributed across global boundaries and business functions/systems may involve multiple organizations. This will generally add complexity to the required systems.

As shown in Figure 1 four steps combine to provide the OMM assessment. It may be helpful to consider the steps as being grouped into three stages. The "planning stage" includes the step of Defining OMM Capability Requirements 1520. The "performing stage" includes the steps of Assessing Current Capabilities 1540 and Identifying and Resolving Gaps

-10-

1570. The "reporting stage" includes the step of Developing OM Capability Blueprints 1580. In the following, the details of the tasks within each step are discussed.

#### Step 1520 – Defining OMM Capability Requirements

In step 1520, the assessment project parameters are defined, and the data gathering phase of the work is begun. The stakeholders in the sponsoring organization are oriented on the benefits, limitations, and approach to be used in the assessment. Figure 2 shows a representation of the tasks for carrying out these functions according to the presently preferred embodiment of the invention. These tasks include Defining Scope and Objectives 1521, Executing and Evaluating OMM Questionnaires 1523, Obtaining Work Products and Documentation 1525, and Creating and Conducting OMM Kickoff Presentations 1527. The products of this step include a category & function assessment list, OMM questionnaire evaluation, operations documentation, and OMM Kickoff presentation.

##### Task 1521: Defining Scope and Objectives

Task 1521 includes provision of scope and goals for the assessment that are agreeable to both the assessment team lead and the sponsoring organization's assessment coordinator. Key issues to be resolved include: what functions are to be analyzed by the project team; what OMM capability levels are to be considered in the analysis; what depth of analysis of Continuous Improvement (CI) Initiatives is desired; what limitations are there on CI Initiatives (for example, 10 functions may be included in the scope, but the organization may only want CI recommendations for the 5 considered the most deficient); and what level of ratings is desired (function only vs. overall maturity). Once agreement is reached, the assessment team lead ensures that the IT operations functions selected are sufficient to meet the purpose and will provide output that is representative of the assessment scope.

An assessment plan is developed based on the goals identified by the sponsoring organization. The plan consists of detailed schedules for the assessment and potential risks identified with performing the assessment.

-11-

Assessment team members, assessment participants, and areas to be assessed are selected. Work products are identified for initial review, and the logistics for the on-site visit are identified and planned. The assessment team members will preferably receive adequate training on the OMM framework and the assessment process to ensure that they will have the ability to interpret the data obtained. The team will preferably have a comprehensive understanding of the assessment process, its underlying principles, the tasks necessary to execute it, and their role in performing the tasks. In addition, the team will preferably fully understand the Rating Framework in order to provide an objective rating of the areas assessed. The "planning stage" then progresses to the tasks of executing and evaluating OMM questionnaires 1523 and obtaining work products and documentation 1525.

##### Task 1523: Executing and Evaluating OMM Questionnaires

Task 1523 includes distribution and interpretation of maturity questionnaires. The maturity questionnaire is a set of questions about the operations environment that sample the base practices in each Function of the OMM. Maturity questionnaires exist for each Function of the OMM, and tie back to base practices, process attributes, and generic practices. The questionnaires are used to obtain information on the capability of the IT organization or a specific IT area or project, and are distributed to OMM participants prior to the on-site visit. Completed questionnaires provide the assessment team with an overview of the IT operations process capability of the IT organization. The responses assist the team in focusing their investigations, and provide direction for later activities such as interviews 1541 and document reviews 1542 and 1543. Assessment team members prepare exploratory questions based on OMM Interview Guides and responses to the maturity questionnaires.

##### Task 1525: Obtaining Work Products and Documentation

Task 1525 includes gathering evidence and documents relating to IT operations. Assessment team members prepare exploratory questions based on responses to the maturity questionnaires and on OMM Interview Guides.

-12-

Interview Guides are a set of exploratory questions about the operations environment which are used during the interview process to obtain more detailed information on the capability of the IT organization. The interview aids are used by the assessment team to guide them through interview sessions 1541 with assessment participants. OMM participants will also receive a Work Product List. In response to the list of work products, assessment participants prepare documentation for the assessment team members to review. Documentation about the IT operations functions allows the assessment team to tie IT organization data to the OMM.

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**Task 1527: Creating and Conducting OMM Kickoff Presentations**

Task 1527 includes the presentation of an inaugural meeting to begin the "performing stage". Once the information from the questionnaires 1523 and from work products and documentation 1525 has been analyzed, a Kickoff meeting is scheduled at the start of the on-site activities. The purpose of the meeting is to provide the participants with an overview of OMM and the assessment process, to set expectations, and to answer any questions about the process. The OMM sponsor of the assessment should participate in the presentation to show visible support and stress the importance of the assessment process to everyone involved.

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20 In the "performing stage" of the assessment process, current capabilities are assessed 1540, and gaps are identified and resolved 1570.

#### **Step 1540 – Assessing Current Capabilities**

In step 1540, current capabilities, including their strengths and weaknesses are analyzed. The practices ratings are used to develop profiles for each selected operations function. These tasks include Scheduling and Conducting Function Interviews 1541, Analyzing Work Products and Documentation 1542, Following Up to Solidify Data 1543, Categorizing Data by Function 1545, Rating Base Practices 1546, Rating Generic Practices 1547, Consolidating Data 1548, and Preparing Function Profiles 1549. The products of this step include function profiles and function documentation.

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-13-

#### **Task 1541: Scheduling and Conducting Function Interviews**

Task 1541 includes interviews of those involved in pertinent functions. Interviewing provides an opportunity to gain a deeper understanding of the activities performed, how the work is performed, and the processes currently in use. Interviewing provides the assessment team members with identifiable assessment indicators for each Function appraised. Interviewing also provides the opportunity to address all areas of OMM within the scope of the assessment.

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Interviews are scheduled with IT operations managers, supervisors, and operations personnel. IT operations managers and supervisors are interviewed as a group in order to understand their view of how the work is performed in the IT organization, any problem areas of which they are aware, and improvements that they feel need to be made. IT operations personnel are interviewed to collect data within the scope of the assessment and to identify areas that they can and should improve in the IT organization.

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#### **Task 1542: Analyzing Work Products and Documentation**

Task 1542 includes confirming and supplementing the information from the interviews with other sources. Data for the OMM assessment are obtained from several sources: responses to the maturity questionnaires, interview sessions, and work products and document reviews 1525. Documents and work products are reviewed in order to verify compliance to process performance.

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#### **Task 1543: Following Up to Solidify Data**

Task 1543 includes confirming the accuracy and relevance of the information obtained in the "planning stage" 1520, in the interviews 1541, and in the work products and documentation 1542. The purpose of this activity is to summarize and consolidate information into a manageable set of findings.

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#### **Task 1545: Categorizing Data by Function**

Task 1545 includes the organization of all relevant data as it pertains to specific IT functions. The data is categorized into the appropriate areas of the

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-14-

OMM. The assessment team will preferably reach consensus on the validity of the data and whether sufficient information in the areas evaluated has been collected. It is the team's responsibility to obtain sufficient information on the OMM components within the scope of the assessment for the required areas of the IT organization before any rating can be done. Follow-up interviews may occur for clarification.

Initial findings are generated from the information collected thus far and presented to the assessment participants. The purpose of presenting initial findings is to obtain feedback from the individuals who provided information during the various interviews. Ratings are not considered until after the initial findings presentations, as the assessment team is still collecting data.

Feedback is recorded for the team to consider at the conclusion of all of the initial findings presentations.

Tasks 1546 and 1547: Rating Base Practices and Generic Practices

Tasks 1546 and 1547 include the assignment of a rating to the generic practices and base practices. This is done by reviewing questionnaire responses, results, interview notes, documentation, and the Assessment Indicator Rating template. The Assessment Indicators are objective attributes or characteristics of a practice or work product that supports an assessor's judgment of performance of an implemented process. The assessment team will use the scoring matrix guideline provided by the OMM framework.

Task 1548: Consolidating Data

Task 1548 includes the assignment of a rating to each Process

Attribute. For Level 1, process attributes are rated based on the existence of and compliance to base practices. For Level 2 and higher, process attribute are rated compliance to generic practices. Each process attribute will receive a rating of Not Achieved, Partially Achieved, Largely Achieved or Fully

Achieved. The method used to rate base practices and generic practices is the Analytical Hierarchy Process (AHP) method. The analytic hierarchy process (AHP) is a comprehensive, logical, and structural framework, which is used to improve the understanding of complex decisions by decomposing the

-15-

problem in a hierarchical structure. The incorporation of all relevant decision criteria, and their pairwise comparison, allows the decision maker to determine the trade-offs among objectives.

Task 1549: Preparing Function Profiles

Task 1549 includes the assignment of a rating (N,P,L,F) to each Category based on the capability ratings of the Functions within the Category using the AHP method. This is done once process attributes have been rated. Assignment of a maturity level rating is optional at the discretion of the sponsoring organization. If the sponsoring organization would like an organizational rating, the AHP method is used to roll up the Category ratings into an organizational maturity level rating.

**Step 1570 – Identifying and Resolving Gaps**

In step 1570, a gap closure approach for specified functions is developed, including estimates of cost and timing. Figure 4 shows a representation of the tasks for carrying out these functions, according to the presently preferred embodiment of the invention. The tasks include Determining Continuous Improvement (CI) Activities 1571, Identifying Alternatives 1573, Estimating Costs of Improvements 1575, Assessing Timing Implications 1577, and Selecting CI Initiatives to Start 1579. The products of this step include Continuous Improvement (CI) initiatives.

Task 1571: Determining Continuous Improvement (CI) Activities

Task 1571 includes identification of possible CI Initiatives. A Rating

Tool generates a list of areas for improvement based on the activities needed to move to the next capability level. Identification of additional CI Initiatives may or may not be included in the scope of an OMM Assessment project. If it is not, then this task package would be eliminated from the work plan.

Task 1573: Identifying Alternatives

Task 1573 includes identification of alternate CI Initiatives. CI alternatives should consider organization, performance, and process



-16-

improvement opportunities in addition to software solutions that may be available. The effort put into analyzing, estimating, and documenting the choices should be controlled by the scope authorized by the sponsoring organization at the outset of the project. Some organizations may only wish to know what is available, others may be ready to begin the improvement process immediately and want cost estimates, work plans, staffing requirements and time schedules for priority initiatives.

The provider or manager then estimates costs of the alternatives 1575 and any impact that the alternatives and choices might have on the organization's functioning or the timing of the implementation 1577. The organization then selects the continuous improvement activities it wishes to pursue 1579. This concludes the "performing stage" of the project. In the fourth stage, the "reporting stage", the OMM Capability Blueprints are constructed by function 1580.

#### 15 Step 1580 – Defining OMM Capability Blueprints

In step 1580, the final project documentation is prepared, a management report is delivered, and the stage is set for subsequent delivery efforts. Figure 5 shows a representation of the tasks for carrying out these functions, according to the presently preferred embodiment of the invention. The tasks include Prioritizing CI Initiatives 1581, Developing OMM Capability Delivery Approach and CI Plans 1583, Preparing and Presenting Final Results Documents and Presentation 1587, and Modifying Delivery Plans as Needed 1589. The products of this step include OMM assessment report and final results presentation.

The selected continuous improvement activities are prioritized 1581 and an approach is developed for these activities 1583. A report or presentation is prepared and presented to the organization's management 1587, and any modifications desired are made 1589 before deployment.

The final assessment results are presented to the OMM sponsor 1587. The sponsor owns the assessment results and is free to use them as he or she sees fit. During the final presentation, the assessment team preferably

-17-

ensures that the IT organization understands the issues that were discovered during the assessment and the key issues that it faces. Operational strengths are presented to validate what the IT organization is doing well. Strengths and weaknesses are presented for each area within the assessment scope as well as any non-OMM issues that affect process. A profile is presented showing the ratings for each specific area assessed.

An executive overview session is held in order to allow the senior IT Operations manager to clarify any issues with the assessment team, to confirm his or her understanding of the operations process issues, and to gain full understanding of the recommendations report. When the assessment has been completed and findings have been presented, the assessment team collects feedback from the assessment participants and the assessment team on the process, packages information that needs to be saved for historical purposes. Any modifications desired are made 1589 before deployment.

In addition to the method for providing the operations management maturity assessment function, the present invention also includes a method and apparatus for providing an estimate for building the operations management maturity assessment function for an information technology organization. The method and apparatus generate a preliminary work estimate (time by task) and financial estimate (dollars by classification) based on input of a set of estimating factors that identify the scope and difficulty of key aspects to the function.

Previous estimators only gave bottom line cost figures and were directed to business rather than OM functions. It could take days or weeks before an IT consultant produced these figures for the client. If the project resulted in a total cost either above or below the projected estimate, there was no way of telling who or what was responsible for the discrepancy. Therefore, a need exists for an improved estimator.

Figure 6 is a flow chart of one embodiment of a method for providing an estimate of the time and cost to build a business recovery planning function in an information technology organization. In Figure 6, a provider of a

-18-

business recovery planning function such as an IT consultant, for example Andersen Consulting, obtains estimating factors from the client 202. This is a combined effort, with the provider adding expertise and knowledge to help in determining the quantity and difficulty of each factor. Estimating factors represent key business drivers for a given OM function. Table 1 lists and defines the factors to be considered along with examples of a quantity and difficulty rating for each factor.

As an illustration of a preferred embodiment of the invention, the provider determines an estimating factor 202, such as for the number of CI initiative, with the help of the client. Next, the difficulty rating 204 is determined. Each of these determinations depends on the previous experience of the consultant. The provider or consultant with a high level of experience will have a greater likelihood of determining the correct number and difficulty ratings. The number and difficulty ratings are input into a computer program. In the preferred embodiment, the computer program is a spreadsheet, such as EXCEL, by Microsoft Corp. of Redmond, Washington, USA. The consultant and the client will continue to determine the number and difficulty ratings for each of the remaining estimating factors 206.

After the difficulty rating has been determined for all of the estimating factors, this information is transferred to an assumption sheet 208, and the assumptions for each factor are defined. The assumption sheet 208 allows the consultant to enter comments relating to each estimating factor and to document the underlying reasoning for a specific estimating factor.

Estimating Factor	Number	Difficulty	Definition	Difficulty Rating
# of CI Initiatives	3	c	The number of continuous improvement initiatives to be developed during the project. This should generally be negotiated as part of project scope.	Based on depth of analysis requested by sponsoring organization.
# of Functions	2	s	The number of OM Functions in the IT organization is to be reviewed. If the same function is to be assessed at two locations, this should be counted	Normally determined by size and complexity of IT

TABLE 1

-19-

Estimating Factor	Number	Difficulty	Definition	Difficulty Rating
# of Levels	3	s	The number of Capability levels to be considered when assessing the IT organization	In general, the more levels the more difficult the assessment will be.
Fixed Effort	1	s	The effort required to complete a task not defined by any other estimating factor	Complexity of the overall project environment.
Multiple Factors			More than one factor is used to determine the time estimate for the task.	Not applicable.
Task Dependent	1	s	Calculated as a % of other tasks	Complexity of the overall project environment.

Next, an estimating worksheet is generated and reviewed 210 by the consultant, client, or both. An example of a worksheet is shown in Figures 7a-b. The default estimates of the time required for each task will populate the worksheet, with time estimates based on the number factors and difficulty rating previously assigned to the estimating factors that correspond to each task. The amount of time per task is based on a predetermined time per unit required for the estimating factor multiplied by a factor corresponding to the level of difficulty. Each task listed on the worksheet is described above in connection with details of the method for providing the business recovery planning function. The same numbers in the description of the method above correspond to the same steps, tasks, and task packages of activities shown on the worksheet of Figures 7a-b. The worksheet is reviewed 210 by the provider and the client for accuracy. Adjustments can be made to task level estimates by either returning to the factors sheet and adjusting the units 212 or by entering an override estimate in the 'Used' column 214 on the worksheet. This override may be used when the estimating factor produces a task estimate that is not appropriate for the task, for example, when a task is not required on a particular project.

-20-

Next, the provider and the client review and adjust, if necessary, the personnel time staffing factors for allocations 216 for the seniority levels of personnel needed for the project. Referring to Figures 7a-b, these columns are designated as Partner - "Pnr", Manager - "Mgr", Consultant - "Cnstl", and Analyst - "Anlst", respectively. These allocations are adjusted to meet project requirements and are typically based on experience with delivering various stages of a project. It should be noted that the staffing factors should add up to 1.

The consultant or provider and the client then review the work plan 218, and may optionally include labor to be provided by the client. In one embodiment, the work plan contains the total time required in days per stage and in days per task required to complete the project. Tasks may be aggregated into a "task package" of subtasks or activities for convenience. A worksheet, as shown in Figures 7a-b, may also be used for convenience.

This worksheet may be used to adjust tasks or times as desired, from the experience of the provider, the customer, or both.

Finally, a financial estimate is generated in which the provider and client enter the agreed upon billing rates for Pnr, Mgr, Cnstl, and Anlst 220. The total estimated payroll cost for the project will then be computed and displayed, generating final estimates. A determination of out-of-pocket expenses 222 may then be applied to the final estimates to determine a final project cost 224. Preferably, the provider will review the final estimates with an internal functional expert 226.

Other costs may also be added to the project, such as hardware and software purchase costs, project management costs, and the like. Typically, project management costs for managing the provider's work are included in the estimator. These are task dependant and usually run between 10 and 15% of the tasks being managed, depending on the level of difficulty. These management allocations may appear on the worksheet and work plan. The time allocations for planning and managing a project are typically broken down for each of a plurality of task packages where the task packages are

-21-

planning project execution 920, organizing project resources 940, controlling project work 960, and completing project 990, as shown in Figure 6.

It will be appreciated that a wide range of changes and modifications to the method as described are contemplated. Accordingly, while preferred embodiments have been shown and described in detail by way of examples, further modifications and embodiments are possible without departing from the scope of the invention as defined by the examples set forth. It is therefore intended that the invention be defined by the appended claims and all legal equivalents.

-22-

## CLAIMS

1. A method for providing an operations maturity model (OMM) assessment function for an information technology organization, the method comprising:
  - (a) defining capability requirements for said OMM assessment function;
  - (b) assessing current capabilities for said OMM assessment function;
  - (c) identifying and resolving gaps for said OMM assessment function; and
  - (d) developing OMM capability blueprints for said OMM assessment function.
2. The method of claim 1 wherein said defining includes at least one of the following:
  - (e) defining scope and objectives;
  - (f) executing and evaluating OMM questionnaires;
  - (g) obtaining work products and documentation; and
  - (h) creating and conducting OMM kickoff presentations.
3. The method of claim 1 wherein said assessing includes at least one of the following:
  - (e) scheduling and conducting function interviews;
  - (f) analyzing work products and documentation;
  - (g) following up to solidify data;
  - (h) categorizing data by function;
  - (i) rating base practices;
  - (j) rating generic practices;
  - (k) consolidating data; and
  - (l) preparing function profiles.

-23-

4. The method of claim 1 wherein said identifying and resolving includes at least one of the following:
  - (e) determining continuous improvement initiatives;
  - (f) identifying alternatives;
  - (g) estimating costs of improvements;
  - (h) assessing timing implications; and
  - (i) selecting to continuous improvement initiatives start.
5. The method of claim 1 wherein said developing includes at least one of the following:
  - (e) prioritizing continuous improvement initiatives;
  - (f) developing capability delivery approach;
  - (g) preparing and presenting final results documentation and presentation; and
  - (h) modifying delivery plans as needed.
6. A method for providing an estimate for building an OMM assessment function in an information technology organization, the method comprising:
  - (a) obtaining a plurality of estimating factors;
  - (b) determining a difficulty rating for each of said estimating factors;
  - (c) generating a time allocation for building said business recovery planning based on said estimating factor and said difficulty rating; and
  - (d) generating a cost for building said OMM assessment based on said time allocation.
7. The method as recited in claim 6, wherein obtaining said estimating factor further includes receiving said estimating factors from a client.

-24-

8. The method as recited in claim 7, wherein said estimating factors include the number of at least one of continuous improvement initiatives, functions, and levels.

9. The method as recited in claim 6, wherein said difficulty rating is selected from the group of simple, moderate, or complex.

10. The method as recited in claim 6, wherein said time allocation includes time allocated for a plurality of individual team members where said individual team members include at least one of partner, manager, consultant, and analyst.

11. The method as recited in claim 6, wherein said cost depends on said time allocation and a pay rate for said individual team member.

12. The method as recited in claim 6, wherein said cost is broken down for each of a plurality of stages for building said OMM assessment function where said stages include at least one of plan and manage and business architecture stages.

13. The method as recited in claim 6, wherein said time allocation is used to generate a project work plan.

14. The method as recited in claim 6, wherein said pay rate is used to generate a financial summary of said cost.

15. The method as recited in claim 6, wherein said work plan is broken down for each of a plurality of stages for building said OMM assessment where said stages are plan and manage and business architecture stages.

16. The method as recited in claim 6, wherein said plan and manage stage is broken down for each of a plurality of task packages where said task packages are plan project execution, organize project resources, control project work, and project complete.

-25-

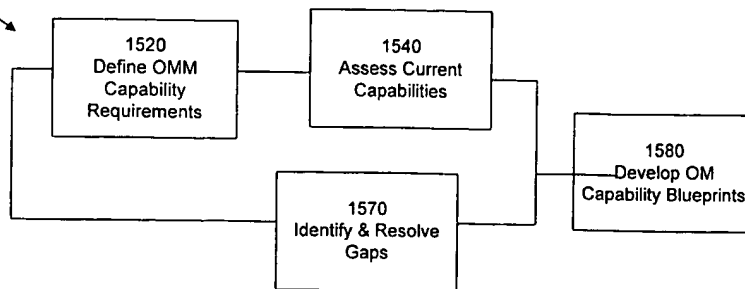
17. A computer system for allocating time and computing cost for building an OMM assessment function in an information technology system, comprising:

(a) a processor,

(b) a software program for receiving a plurality of estimating factors and difficulty rating for each of said estimating factors and generating a time allocation and cost for building said OMM assessment; and

(c) a memory that stores said time allocation and cost under control of said processor.

FIG. 1



1/6

FIG. 2

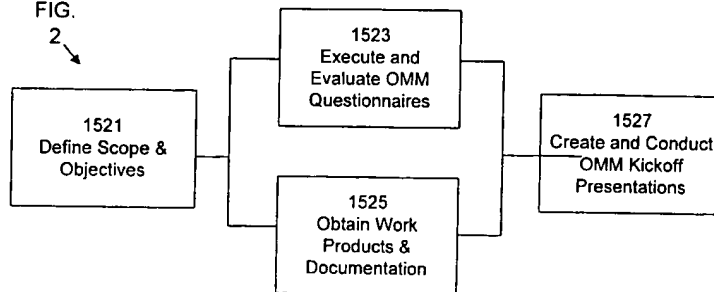
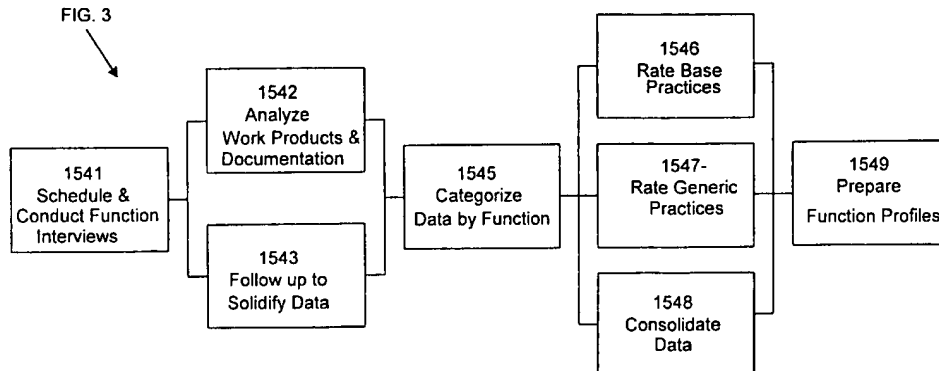
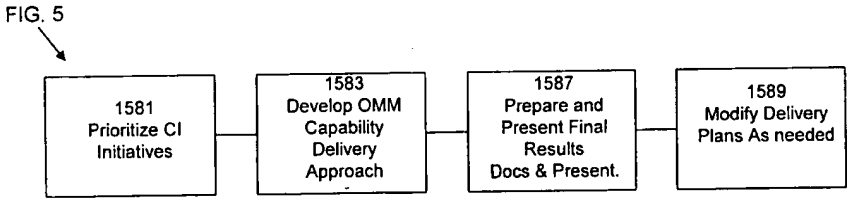
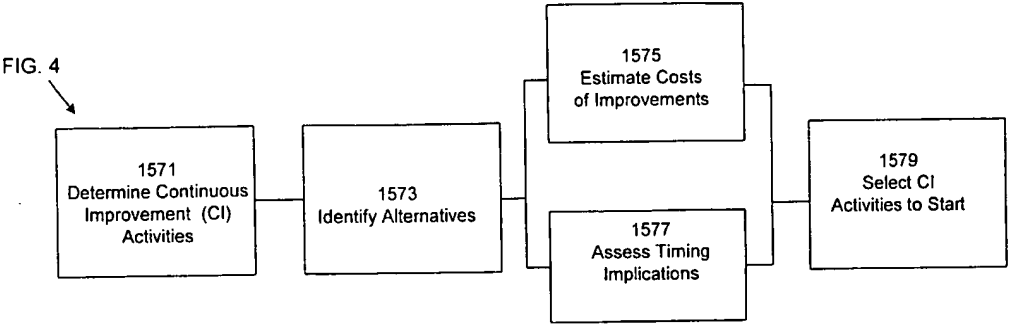


FIG. 3



2/6



SUBSTITUTE SHEET (RULE 26)

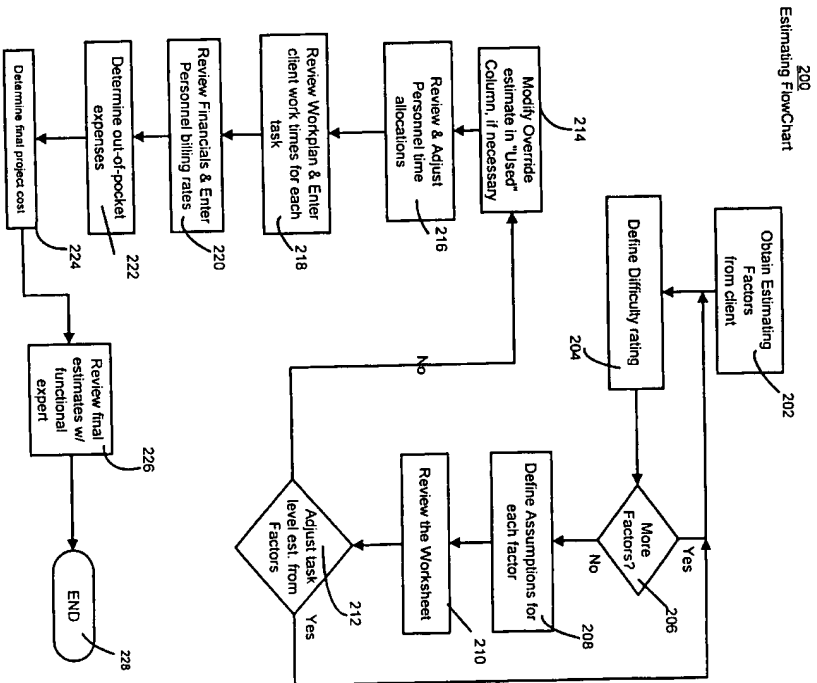


Fig. 6

SUBSTITUTE SHEET (RULE 26)

Sponsoring Organization				Estimating Worksheet											
Operations Maturity Model (OMM) Assessment Estimating Guide															
Stage	Task	Description	Estimating Factors	Units	Days per Unit			Task	Default	Used	PTNR	MGR	CHSLT	ANALST	Staffing Total
Total Project					Simple	Medium	Complex	Difficulty	21.58	21.58					
Managing Phase															
Plan & Manage Project									1.96	1.96					
920	Plan Project Execution								1.96	1.96	0.11	1.44	0.27	0.90	1.96
921	Develop Detailed Work Plan & Estimate	Task Dependent		1	0.332	0.424	0.550	A	0.58	0.57	0.06	0.51	0.01	0.90	0.58
922	Execute Project Plan Integration Plan	Task Dependent		1	0.578	0.633	0.844	A	0.53	0.5	0.10	0.80	0.00	0.90	1.0
923	Plan Project Quality Activities	Task Dependent		1	0.278	0.333	0.440	A	0.53	0.5	0.10	0.80	0.00	0.90	1.0
924	Monitor Progress Issues	Task Dependent		1	1.118	0.141	0.177	A	0.10	0.1	0.10	0.80	0.00	0.90	1.0
925	Complete Project Plan	Task Dependent		1	0.588	0.671	0.888	A	0.58	0.5	0.10	0.80	0.00	0.90	1.0
940	Organize Project Resources								0.20	0.20	0.05	0.25	0.02	0.90	0.20
941	Establish Project Standards & Procedures	Task Dependent		1	0.026	0.035	0.044	A	0.03	0.03	0.10	0.80	0.00	0.90	0.03
942	Organize Project Team	Task Dependent		1	0.026	0.035	0.044	A	0.03	0.03	0.10	0.80	0.00	0.90	0.03
943	Establish Other Resources	Task Dependent		1	0.026	0.035	0.044	A	0.03	0.03	0.10	0.80	0.00	0.90	0.03
944	Assign Resources to Work Packages	Task Dependent		1	0.059	0.071	0.088	A	0.06	0.06	0.10	0.80	0.00	0.90	0.06
945	Establish Resources	Task Dependent		1	0.147	0.177	0.221	A	0.10	0.10	0.10	0.80	0.00	0.90	0.10
960	Control Project Work								0.18	0.18	0.01	0.48	0.02	0.90	0.18
961	Monitor Work Packages	Task Dependent		1	0.048	0.058	0.074	A	0.05	0.05	0.10	0.80	0.00	0.90	0.05
962	Monitor Performance	Task Dependent		1	0.048	0.118	0.127	A	0.10	0.10	0.00	0.70	0.00	0.90	0.10
963	Manage Performance	Task Dependent		1	0.431	0.488	0.738	A	0.44	0.44	0.00	0.70	0.00	0.90	0.44
964	Communicate Progress Status	Task Dependent		1	0.196	0.229	0.294	A	0.20	0.20	0.00	0.80	0.00	0.90	0.20
965	Obtain Acceptance of Interim Deliverables	Task Dependent		1	0.157	0.177	0.221	A	0.10	0.10	0.10	0.80	0.00	0.90	0.10
990	Complete Project								0.10	0.10	0.01	0.88	0.00	0.90	0.10
	Obtain Formal Acceptance of Deliverables, Transfer Responsibility, Finalize Documentation, Evaluate Project, Release Resources	Task Dependent		1	0.098	0.118	0.147	A	0.10	0.10	0.10	0.80	0.00	0.90	0.10

Fig. 7a

5/6

Sponsoring Organization				Estimating Worksheet											
Operations Maturity Model (OMM) Assessment Estimating Guide															
Stage	Task	Description	Estimating Factors	Units	Days per Unit			Task	Default	Used	PTNR	MGR	CHSLT	ANALST	Staffing Total
Total Project					Simple	Medium	Complex	Difficulty	21.58	21.58					
Planning Phase															
Business Architecture Stage									19.63	19.63	2.18	0.84	1.26	0.64	19.63
1520	Define Data Capability Requirements								1.24	1.24	0.10	0.94	0.01	0.90	1.24
1521	Define Assessment Scope & Objectives	Fixed effort		1	0.125	0.150	0.200	A	0.13	0.13	0.10	0.80	0.00	0.90	0.13
1522	Include and evaluate OMM Maturity Questionnaire	# of functions		2	0.175	0.250	0.300	A	0.25	0.25	0.10	0.80	0.00	0.90	0.25
1523	Obtain Work Products & Documentation	# of functions		2	0.215	0.300	0.300	A	0.23	0.23	0.10	0.80	0.00	0.90	0.23
1524	Create & Conduct Online KMS for Presentation / Review	Fixed effort		1	0.750	0.750	1.100	A	0.75	0.75	0.10	0.80	0.00	0.90	0.75
1540	Assess Current Capabilities								0.60	0.60	0.00	1.00	1.00	0.00	0.60
1541	Schedule & Conduct Function Interviews	# of functions		2	0.250	0.500	0.750	A	0.60	0.60	0.00	0.80	0.00	0.90	0.60
1542	Analyze Work Products & Documentation	# of functions		2	0.250	0.500	0.750	A	0.60	0.60	0.00	0.80	0.00	0.90	0.60
1543	Refine to Summary Data	# of functions		2	0.125	0.250	0.500	A	0.25	0.25	0.00	0.80	0.00	0.90	0.25
1544	Categorize Data by Function	# of functions		2	0.250	0.500	0.750	A	0.60	0.60	0.00	0.80	0.00	0.90	0.60
1545	Rate Base Practices	# of functions		2	0.250	0.500	0.750	A	0.60	0.60	0.00	0.80	0.00	0.90	0.60
1547	Rate Current Practices	Multiple Factors							0.20	0.20	0.00	0.80	0.00	0.90	0.20
1548	Conduct Data	# of functions		2	0.250	0.500	0.750	A	0.60	0.60	0.00	0.80	0.00	0.90	0.60
1549	Prepare Function Profiles	Multiple Factors							0.25	0.25	0.00	0.80	0.00	0.90	0.25
1570	Identify Strengths and Weaknesses	# of functions		2	0.250	0.500	0.750	A	0.60	0.60	0.00	0.80	0.00	0.90	0.60
1571	Identify Opportunities for Improvement (CI) activities	# of functions		2	0.250	0.500	0.750	A	0.60	0.60	0.00	0.80	0.00	0.90	0.60
1572	Identify Opportunities for Improvement (CI) activities	# of CI initiatives		2	0.250	0.500	0.750	A	0.60	0.60	0.00	0.80	0.00	0.90	0.60
1573	Identify Opportunities for Improvement (CI) activities	# of CI initiatives		2	0.250	0.500	0.750	A	0.60	0.60	0.00	0.80	0.00	0.90	0.60
1574	Assess Current Capabilities	# of CI initiatives		2	0.250	0.500	0.750	A	0.60	0.60	0.00	0.80	0.00	0.90	0.60
1575	Identify Opportunities for Improvement (CI) activities	# of CI initiatives		2	0.250	0.500	0.750	A	0.60	0.60	0.00	0.80	0.00	0.90	0.60
1580	Define OMM Capability Blueprint	Fixed effort		1	0.125	0.250	0.500	A	0.13	0.13	0.10	0.80	0.00	0.90	0.13
1581	Present CI Initiatives	# of CI initiatives		2	0.125	0.250	0.500	A	0.13	0.13	0.10	0.80	0.00	0.90	0.13
1582	Develop OMM Capability Delivery Approach & Plan	# of CI initiatives		2	0.125	0.250	0.500	A	0.13	0.13	0.10	0.80	0.00	0.90	0.13
1583	Prepare & Review Final Review Documents & Plan	Multiple Factors							0.25	0.25	0.10	0.80	0.00	0.90	0.25

Fig. 7b

6/6



## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US00/27856

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7) G06F 17-30; G06F 17-00  
US CL. 707.1, 10, 100, 102, 103, 104, 705.7, 8.  
According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
U.S. 707.1, 10, 100, 102, 103, 104, 705.7, 8.

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Extra Sheet.

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,960,200 A (EAGER et al) 28 September 1999, col. 1, lines 12-48, col. 2, lines 30-43, col. 5, lines 41-67, col. 6, lines 1-67, col. 7, lines 1-43, col. 8, lines 23-65, col. 9, lines 36-44, col. 16, lines 36-65, col. 22, lines 36-48, and col. 32, lines 35-48.	1-17
Y	US 5,819,270 A (MALONE et al) 06 October 1998, col. 3, lines 62-67, col. 4, lines 1-67, col. 5, lines 1-67, col. 6, lines 1-67, col. 7, lines 1-40, col. 8, lines 65-67, col. 9, lines 1-23, col. 15, lines 61-67, col. 16, lines 1-12, lines 31-38, and lines 54-61, and col. 17, lines 9-44.	1-17

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents	**
*A* Document affecting the prior art of the art when a new amendment is made to the present application	**A* Document published after the international filing date of priority claim and used in combination with the application for use in understanding the principle of the invention
*B* Document published after the international filing date	**B* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*C* Document which may have a substantial effect on the art	**C* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*D* Document which may have a substantial effect on the art	**D* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*E* Document which may have a substantial effect on the art	**E* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*F* Document which may have a substantial effect on the art	**F* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*G* Document which may have a substantial effect on the art	**G* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*H* Document which may have a substantial effect on the art	**H* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*I* Document which may have a substantial effect on the art	**I* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*J* Document which may have a substantial effect on the art	**J* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*K* Document which may have a substantial effect on the art	**K* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*L* Document which may have a substantial effect on the art	**L* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*M* Document which may have a substantial effect on the art	**M* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*N* Document which may have a substantial effect on the art	**N* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*O* Document which may have a substantial effect on the art	**O* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*P* Document which may have a substantial effect on the art	**P* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*Q* Document which may have a substantial effect on the art	**Q* Document of particular relevance, the claimed invention cannot be understood without reference to the document
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*S* Document which may have a substantial effect on the art	**S* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*T* Document which may have a substantial effect on the art	**T* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*U* Document which may have a substantial effect on the art	**U* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*V* Document which may have a substantial effect on the art	**V* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*W* Document which may have a substantial effect on the art	**W* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*X* Document which may have a substantial effect on the art	**X* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*Y* Document which may have a substantial effect on the art	**Y* Document of particular relevance, the claimed invention cannot be understood without reference to the document
*Z* Document which may have a substantial effect on the art	**Z* Document of particular relevance, the claimed invention cannot be understood without reference to the document

Date of the actual completion of the international search

17 DECEMBER 2000

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*Page 1 of 2*

Form PCT/ISA/210 (second sheet) (July 1998)\*

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US00/27856

## C (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,930,762 A (MASCHI) 27 July 1999, col. 1, lines 33-67, col. 2, lines 1-31 and lines 51-65, col. 3, lines 43-67, col. 4, lines 52-59, col. 5, lines 39-67, col. 6, lines 1-19, col. 9, lines 63-67, col. 10, lines 1-14, col. 12, lines 32-46, col. 21, lines 15-67, col. 22, lines 1-25, col. 23, lines 23-65, and col. 26, lines 28-48.	1-17

Form PCT/ISA/210 (Continuation of second sheet) (July 1998)\*

INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US90/27836

B FIELDS SEARCHED

Electronic data bases consulted (Name of data base and where practicable terms used)

WEST

Search terms: information technology; enterprise; information technology; framework; business enterprise; operations  
model; operations maturity; organization; blueprint; business planning; objectives.

CORRECTED VERSION

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
12 April 2001 (12.04.2001)

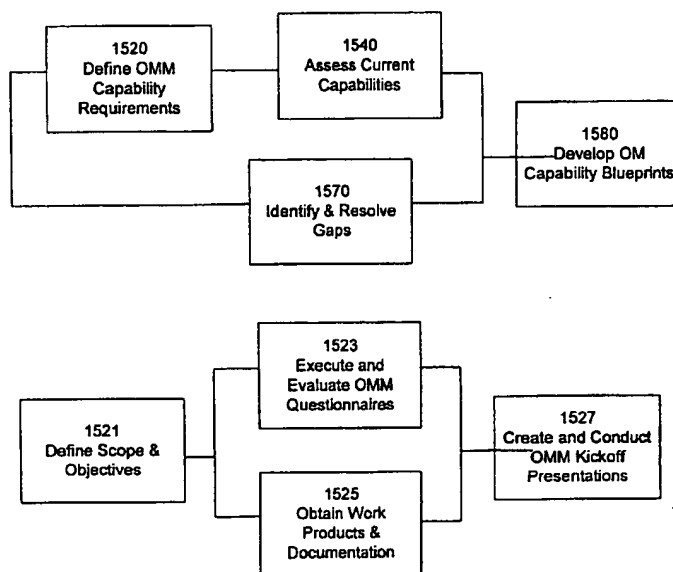
PCT

(10) International Publication Number  
**WO 01/25970 A1**

- (51) International Patent Classification<sup>7</sup>: **G06F 17/30**, (74) Agent: **RICHARDS, Marc, V.**; Brinks Hofer Gilson & Lione, P.O. Box 10087, Chicago, IL 60610 (US).  
17/00
- (21) International Application Number: **PCT/US00/27856** (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.
- (22) International Filing Date: 6 October 2000 (06.10.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/158,259 6 October 1999 (06.10.1999) US (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
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**BOND, William, C.**; 21325 North White Pine, Kildeer, IL 60047 (US).
- Published:  
— with international search report

[Continued on next page]

(54) Title: **METHOD AND ESTIMATOR FOR PROVIDING OPERATIONS MATURITY MODEL ASSESSMENT**



(57) Abstract: A method of providing an OMM assessment function of an information technology organization includes defining capability requirements (1520), assessing current capabilities (1540), identifying and resolving gaps (1570) and developing operations maturity blueprints (1580) for the OMM assessment function. A method to estimate the time and cost for providing the OMM assessment function includes obtaining estimating factors (202), obtaining difficulty ratings (204), generating time allocations (216) and generating costs (224).

WO 01/25970 A1



**(48) Date of publication of this corrected version:**  
27 September 2001

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**(15) Information about Correction:**  
see PCT Gazette No. 39/2001 of 27 September 2001, Section II